CLAIMS

- 1) Installation for fitting sleeves on products such as bottles, in which the products are fed upright, one behind the other, along a conveyor line and the sleeve is drawn from a sleeve supply by means of transfer elements from above the product, characterised in that it comprises
- a single supply of sleeves drawn from a sheath, and
- two pairs (6, 7) of transfer elements (61, 71), each comprising two transfer elements mounted on either side of the conveyor line (DF) of products (P) and operating in alternation,
- * each transfer element (61, 71) being supported

 by a conveyor means in order to effect an
 active travel path along the side of the
 product (P) at the sleeve fitting station (E),
 in alternation with the transfer element of
 the other pair (6, 7), in order to pick up a

 sleeve (MA) and fit it on the product (P)
 whilst the conveyor means of the transfer
 element of the other pair displaces the latter
 on a return path, separate from the active
 travel path,
- a means (3) for synchronising the products (P) and means for conveying the transfer elements (61, 71).
 - 2) Installation as claimed in claim 1, characterised by
- a means for synchronising the products (P) with respect to the transfer elements is provided in the form of an inlet star (3) which positions the products (P) upstream of the sleeve fitting station (E).

3) Installation as claimed in claim 1, characterised in that

the conveyor means for a transfer element (61, 71) comprises

- a carriage (9, 10) guided on a fixed track (11, 12) effecting an ascending and descending movement bearing the transfer element by means of an arm pivoting between a position in which it effects its active travel path and its return path by means of a control track (17-1, 17-2) accommodating a pulley (61-5, 61-6) borne by the transfer element (61), this track being displaced between an advanced position and a retracted position,
- * which advanced position corresponds to the active travel path of the transfer element (61) as the carriage descends along the side of the product to be fitted with a sleeve,
- * whilst the retracted position corresponds to

 the return path of the transfer element (61)

 as the carriage ascends towards the start of

 the next active travel path of the transfer

 element,
- a means (18, 18-1, 18-2, 17-5, 17-6) for displacing the control track (17-2, 17-2) and
 - a driving means (15, 16) for displacing the carriage (9, 10) along its track (11, 12).
 - 4) Installation as claimed in claim 3,
- characterised in that
 the movement of the products (P) through the sleeve
 fitting station (E) is continuous and the tracks (11, 12)
 of the carriages (9, 10) are inclined with respect to the

conveyor line (DF) as a function of the active travel path to be effected during the displacement of the product to be fitted with a sleeve, so that the difference in the horizontal displacement speeds of the pair of transfer elements on their active travel path and that of the product to be fitted with a sleeve is zero.

- 5) Installation as claimed in claim 3, characterised in that
- the drive means for a carriage is provided in the form of a direct current motor (16) without a collector driving a belt (15) linked to a carriage (9, 10).
 - 6) Installation as claimed in claim 3,
- the means for displacing the control track is provided in the form of a rotating cam (18, 18-1, 18-2) co-operating with a pulley (17-5, 17-6) supported by the control track

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(17-1, 17-2).

characterised in that
each transfer element (61) comprises a drawing device
(16-1) and a clamp (16-2) for clamping the sleeve against
the drawing device during the active travel path of the

7) Installation as claimed in claim 1 to 3,

the drawing device during the active travel path of the sleeve fitting operation, and the control track (17-1, 17-2) of the transfer element (61) is split for the drawing device (16-1) and the clamp (16-2), which effect parallel movements during the active travel path but move towards one another at the start of the travel path to clamp the sleeve and then move apart at the end of the travel path in order to release the sleeve.

- 8) Installation as claimed in claim 1, characterised in that the unit comprising the tracks (11, 12) of the carriages (9, 10) and the control tracks (17-1, 17-2) is pivotably mounted on the installation frame.
- 9) Installation as claimed in claim 6, characterised in that the rotating cam has two cam paths, one for controlling 10 the movement of the control track (17-1) of the drawing device (61-1) and the other for the control track (17-2) of the clamp (61-2).

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10) Installation as claimed in claim 9,
15 characterised in that
the rotating cam (18) controls the movement of the two
control tracks of the two transfer elements on a same

side of the conveyor line.